



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/pera/

Kawneer Company, Inc.
555 Guthridge Court
Norcross, GA 30092

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA -Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "HPS HC-100" Aluminum Sliding Glass Door-S. M. Impact

APPROVAL DOCUMENT: Drawing No. **1522 Rev A**, titled "HPS HC-100", sheets 1 through 4 of 4, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 04/10/07 and last revised on DEC 15, 2011, signed and sealed by Warren W. Schaefer, P. E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Small Missile Impact Resistant

Limitations:

1. Concrete screw type (1), when used shall have a min $F_y = 126,000$ psi and $F_u = 158,000$ psi.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises & renews** NOA # **07-0719.07** and consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**

MIAMI-DADE COUNTY
APPROVED

NOA No 11-1027.14
Expiration Date: August 23, 2017
Approval Date: January 12, 2012
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections. (transferred from file # **07-0719.07**)
2. Drawing No. **1522 Rev A**, titled "HPS HC-100", sheets 1 through 4 of 4, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 04/10/07 and last revised on DEC 15, 2011, signed and sealed by Warren W. Schaefer, P. E.

B. TESTS

1. Test reports on:
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Small Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

Along with marked-up drawings and installation diagram of Aluminum Sliding Glass, prepared by Hurricane Testing Laboratory Inc, Test Report No. **HTL-G049-06** and **HTL-G049-1201-06**, dated 03/10/07 both signed & sealed by Vinu J. Abraham, P.E.

(Note: This test report has been revised by addendum letters July 16, 2007, issued by Hurricane Testing Laboratory Inc, signed & sealed by Vinu J. Abraham, P.E.)

C. CALCULATIONS

1. Anchor verification calculations, complying with FBC-2007 & FBC 2010, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated 10/11/11 and last revised on Jan 05, 2012, signed and sealed by Warren W. Schaefer, P.E.
2. Statement letter dated Jan 02, 2008 of yield & ultimate strength of Tapcon, issued by ITW Red Head, engineering department, signed by Mark Timmerman, Senior Product Engineer.
3. Glazing complies w/ ASTM E-1300-02 & -04

D. QUALITY ASSURANCE

1. Miami Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

E. MATERIAL CERTIFICATIONS

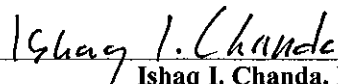
1. Notice of Acceptance No. **11-0325.05** issued to Solutia, for "Saflex interlayer clear & color", expiring on 05/21/2016.
2. Notice of Acceptance No. **11-0624.01** issued to "E.I. DuPont Denemours" for "DuPont Butacite ® PVB", expiring on 12/11/16.

F. STATEMENTS

1. Statement letter of conformance to FBC 2007 and FBC 2010 & "No financial interest", prepared by W. W. Schaefer Engineering & Consulting, P.A., both dated OCT 11, 2011, signed and sealed by Warren W. Schaefer, P.E.
2. Statement of Lab compliance, as part of above referenced test report.

G. OTHER

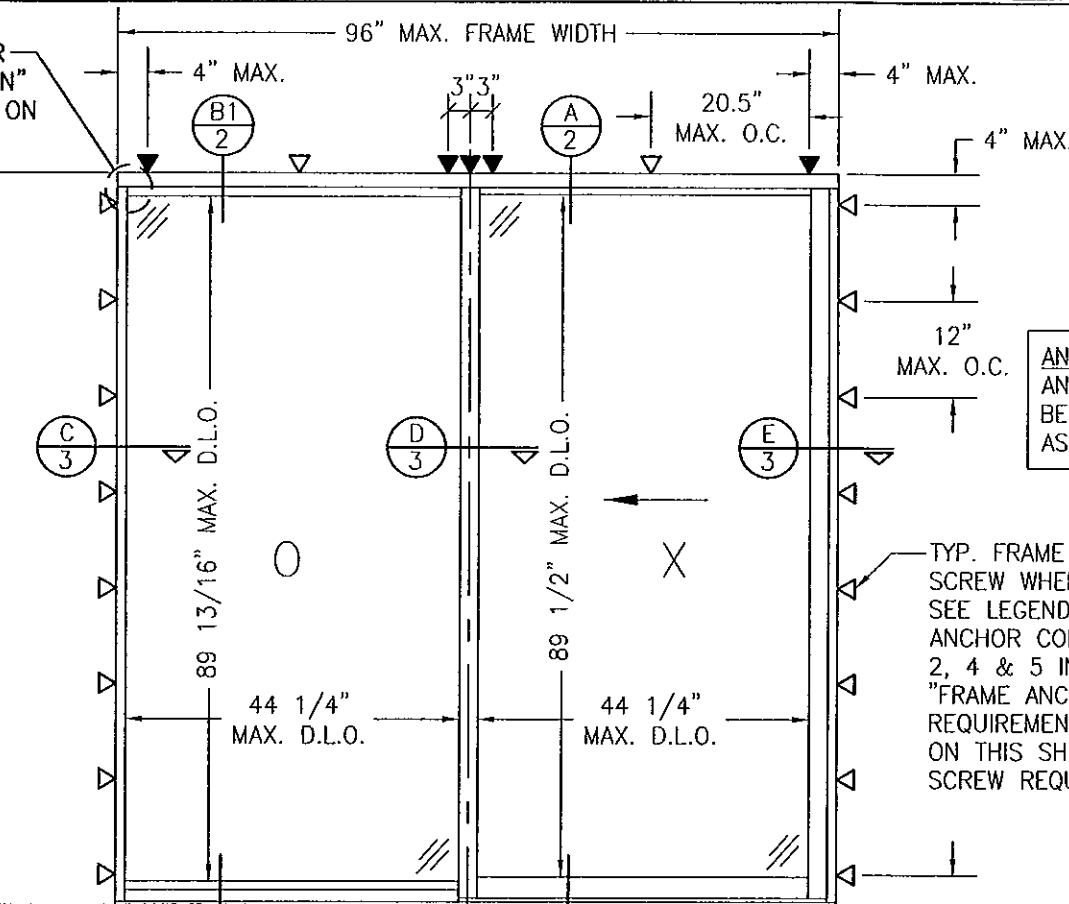
1. This NOA **revises** NOA #**07-0719.07**, expiring on August 23, 2012.
2. Test proposal dated 08/03/2009 approved by BCCO.



Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No 11-1027.14
Expiration Date: August 23, 2017
Approval Date: January 12, 2012

SEE "CORNER CONSTRUCTION" DESCRIPTION ON THIS SHEET

96" MAX. FRAME HEIGHT



EXTERIOR ELEVATION: ANCHOR CONDITIONS 1, 2, 4 & 5
SCALE: 1/2"=1'-0"

ANCHOR NOTE: SILL ANCHORS ARE TO BE SAME LOCATIONS AS SHOWN AT HEAD.

TYP. FRAME SHEAR SCREW WHERE SHOWN. SEE LEGEND BELOW & ANCHOR CONDITIONS 1, 2, 4 & 5 IN THE "FRAME ANCHOR REQUIREMENTS TABLE" ON THIS SHEET FOR SCREW REQUIREMENTS.

GENERAL NOTES:

1. THESE DOOR SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR SMALL MISSILE IMPACT DOORS.
5. THESE DOOR SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. THESE DOORS ARE SMALL MISSILE IMPACT RATED & MAY NOT BE INSTALLED AT ELEVATIONS BELOW 30 FT. ABOVE GRADE WITHOUT AN APPROVED SHUTTER.
7. ALL ANCHORS SECURING DOOR FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.

FRAME ANCHOR REQUIREMENTS TABLE

FRAME SHEAR SCREWS

ANCHOR CONDITION	OPENING TYPE (SUBSTRATE)	FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
1	2X WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	(1) 1/4" CONCRETE SCREW	1 1/4"	3/4"
2	MIN. 16 GA. 33 KSI METAL STUD OR MIN. 1/8" THK. A36 STEEL	1/4-14 SELF TAP/DRILLING GR. 5 SCREW	FULL	1/2"
3	MIN. 1/4" THK. A36 STEEL	1/4-14 SELF TAP/DRILLING GR. 5 SCREW	FULL	1/2"
4	(2) MIN. C-90 CMU	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
5	MIN. 3000 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 3/4"	2"

(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS, ELCO CRETE-FLEX, ITW RAMSET/RED HEAD TAPCONS OR HILTI KWIK-CON II (HARDENED STEEL OR S.S.).

(2) CMU IS APPLICABLE AT SIDES ONLY.

CORNER CONSTRUCTION

FRAME CORNERS:

THE JAMB WAS SQUARE CUT AT THE ENDS AND INSERTED BETWEEN THE ADJOINING HEAD TRACK AND SILL TRACK RECEPTOR. THE HEAD TRACK & SILL TRACK RECEPTOR WERE MECHANICALLY ATTACHED TO THE JAMBS USING TWO(2) NO. 12 X 2" TYPE AB HWH S.S. THREAD FORMING SCREWS PER END. EACH CORNER IS SEALED WITH DOW 795 SEALANT.

FIXED INTERLOCK ATTACHMENT:

SQUARE CUT AT ENDS & INSERTED BETWEEN THE ADJOINING HEAD TRACK AND SILL TRACK RECEPTOR. THE RECEPTORS ARE MECHANICALLY ATTACHED TO THE FIXED INTERLOCK WITH 3 NO. 12 X 2" TYPE AB HWH S.S. THREAD FORMING SCREWS. ENDS ARE SEALED WITH DOW 795 SEALANT.

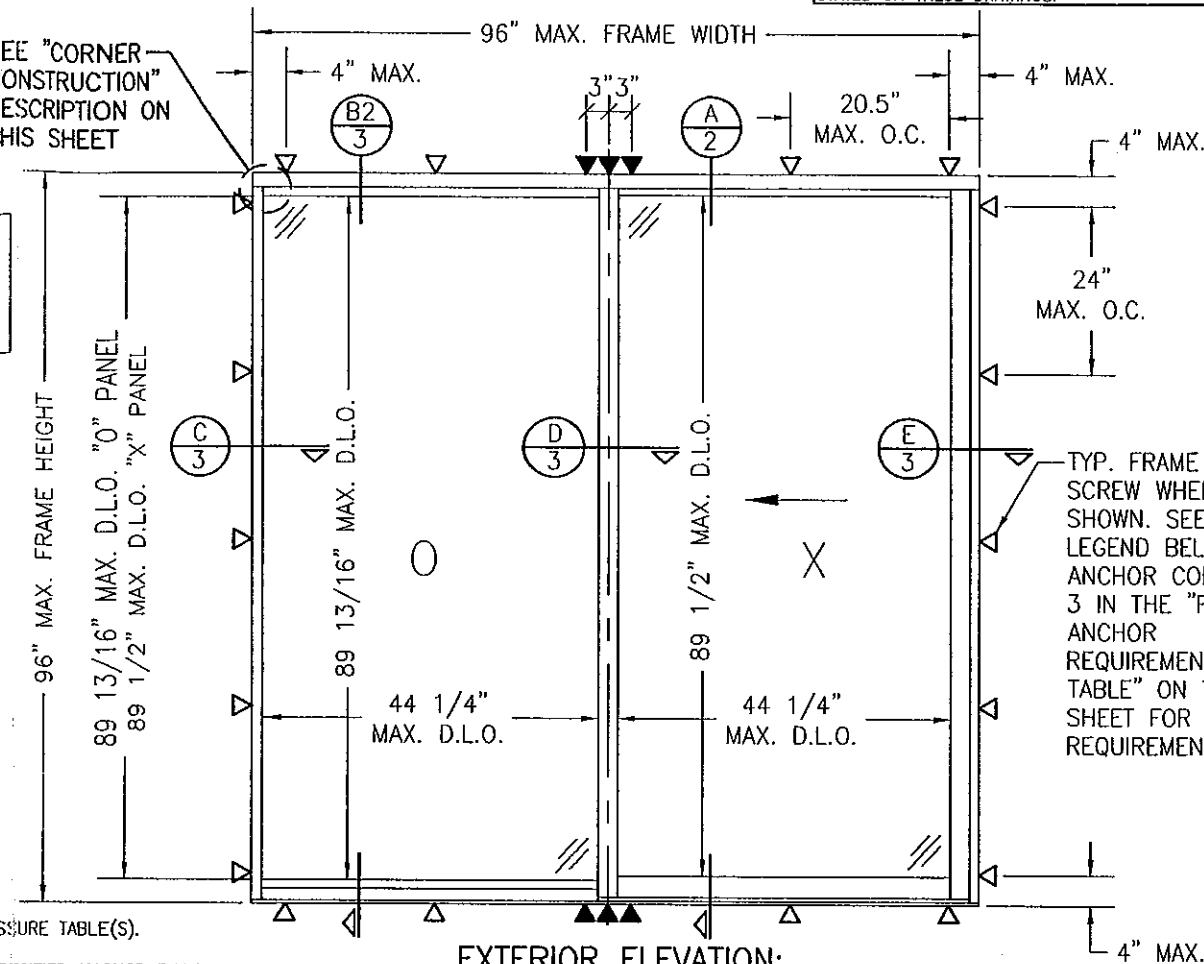
PANEL CORNERS:

THE TOP & BOTTOM RAILS WERE SQUARE CUT, NOTCHED & BUTTED TO THE ADJACENT INTERLOCK STILE & LOCK OR LATCH STILE. THE INTERLOCK STILE & LOCK OR LATCH STILE WERE MECHANICALLY ATTACHED TO THE ADJACENT RAILS USING 2 NO. 12 X 2" TYPE AB HWH S.S. THREAD FORMING SCREWS PER CORNER. EACH CORNER IS SEALED WITH DOW 795 SEALANT.

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

SEE "CORNER CONSTRUCTION" DESCRIPTION ON THIS SHEET

96" MAX. FRAME HEIGHT



EXTERIOR ELEVATION:
ANCHOR CONDITION 3
SCALE: 1/2"=1'-0"

FRAME ANCHOR LEGEND

- ▽ = ONE ROW OF ANCHORS AT ANCHOR LOCATIONS SHOWN
▼ = TWO ROWS OF ANCHORS AT ANCHOR LOCATIONS SHOWN

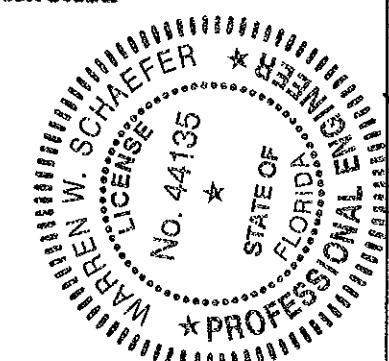
NOTE: SEE SECTIONS ON SHEETS 2 & 3 FOR ANCHOR LOCATIONS

ALLOWABLE DESIGN PRESSURE

+100/-105 PSF

SMALL MISSILE IMPACT RATED

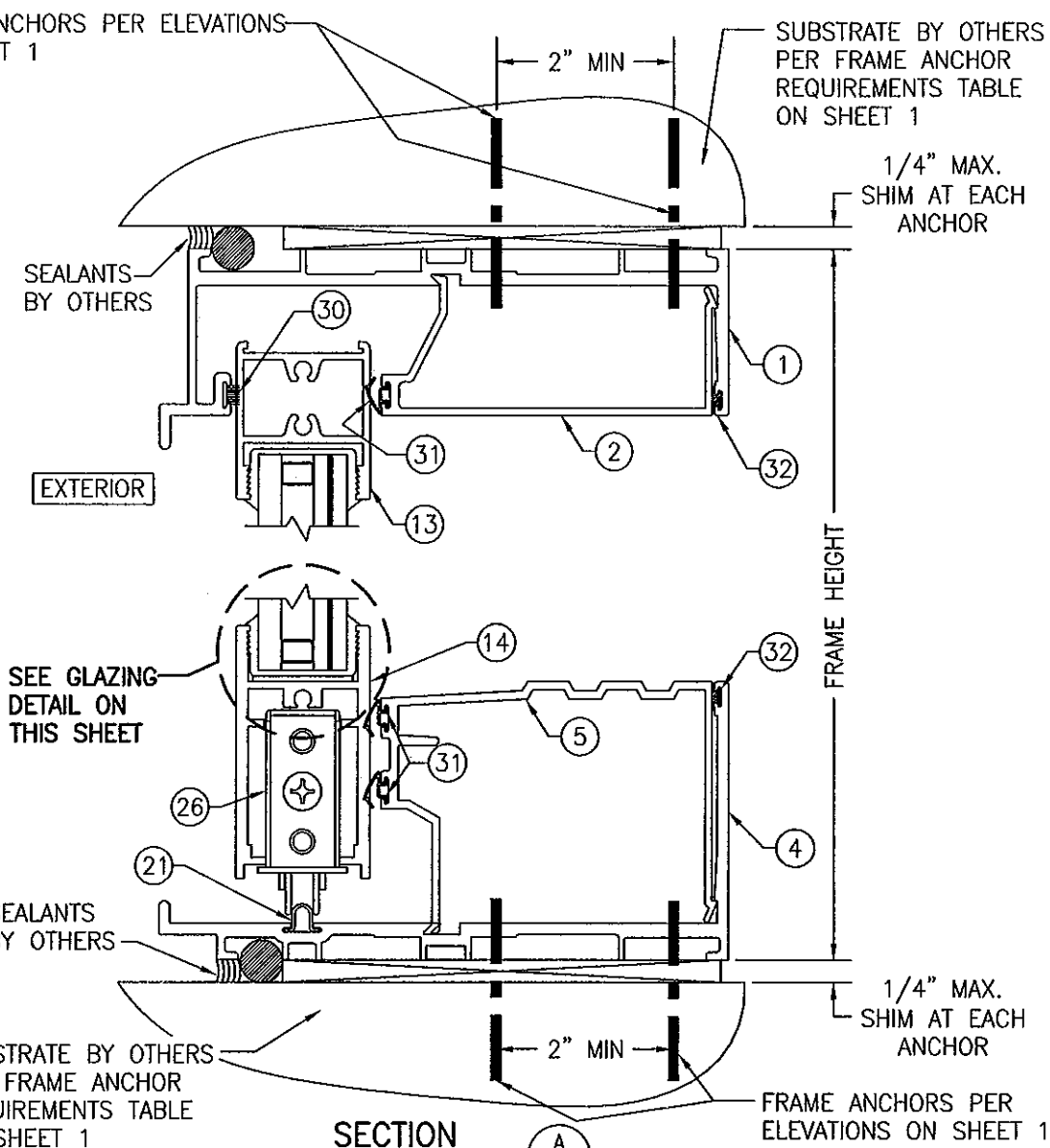
PRODUCT REVISED
to comply with the Florida Building Code
Adopted No. 11-1027-14
Expiration Date AUG 23, 2017
By: [Signature]
Initial Date/Project Control



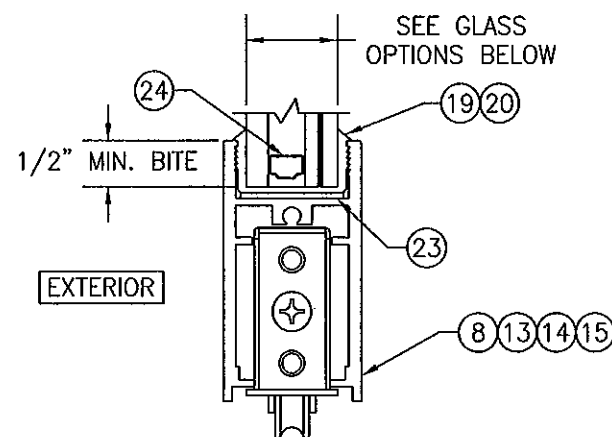
DRAWN BY:	W.R.M.	CHECKED BY:	W.H.S.
PLOT:	1=24	DATE:	04/10/07
DATE	BY	REVISION DESCRIPTION	NO.
10/12/11	W.R.M.	UPDATE TO CURRENT STANDARDS	A1
10/12/11	W.R.M.	ADD NEW CASTER	A2
DRAWING TITLE			
HPS HC-100 SMALL MISSILE IMPACT SLIDING GLASS DOOR			
MANUFACTURER			
KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555			
CONSULTANTS			
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			

CERTIFICATION	DEC 15 2011
DRAWING NO.	1522
SHEET NO.	1 OF 4
REV.	A

FRAME ANCHORS PER ELEVATIONS
ON SHEET 1



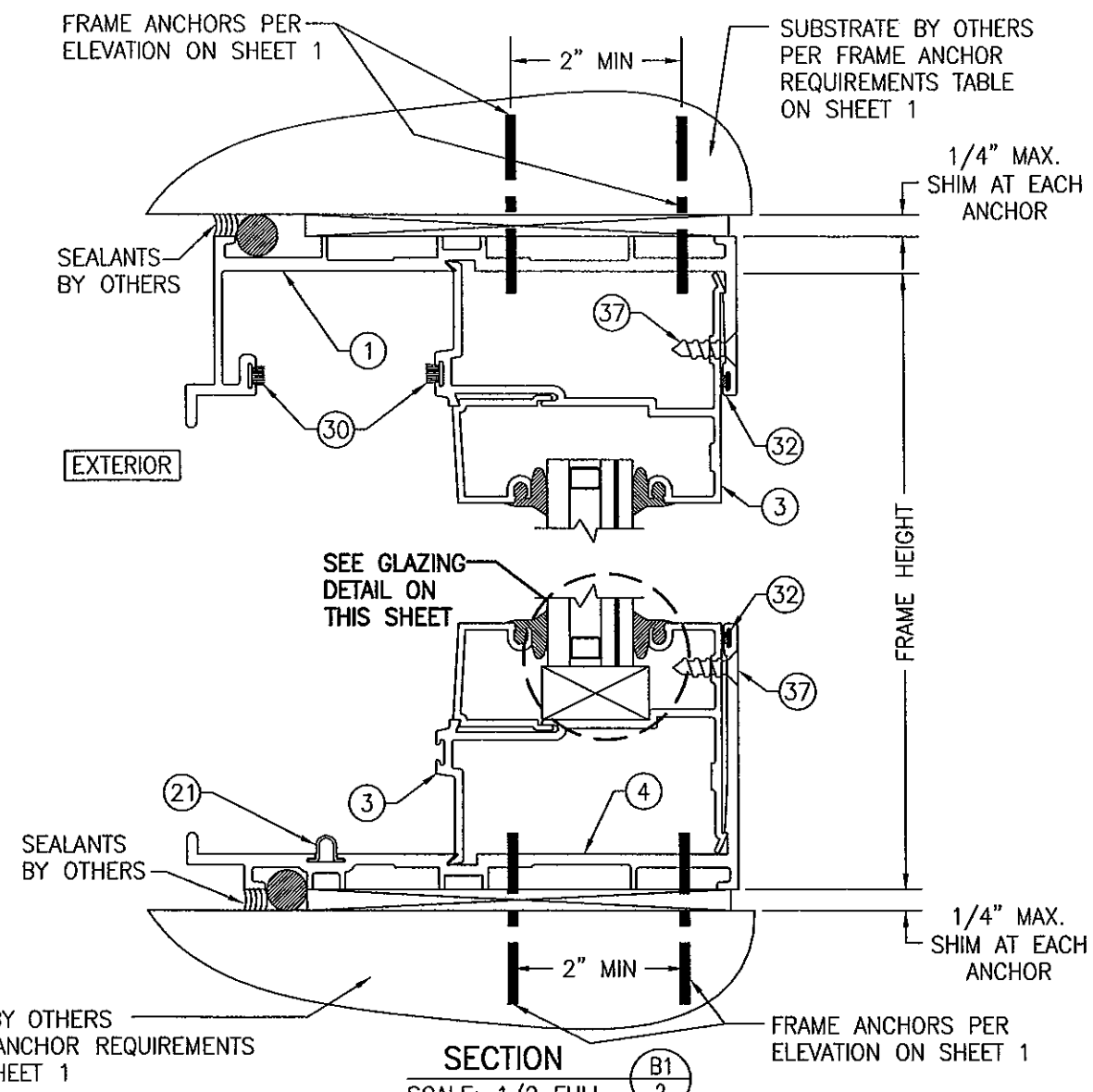
SECTION A
SCALE: 1/2 FULL



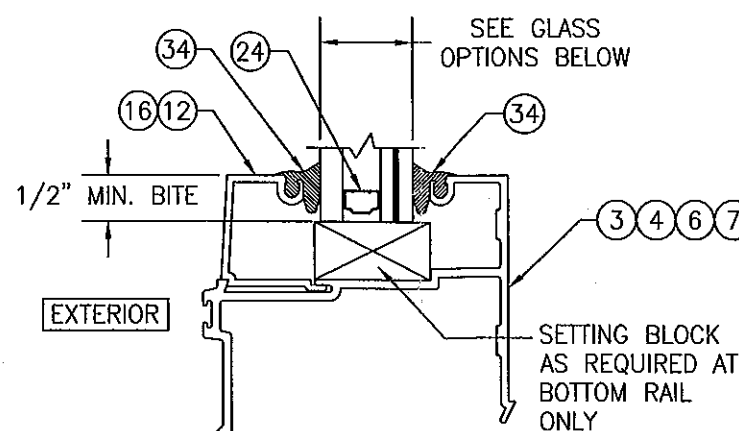
ACTIVE PANEL GLAZING DETAIL

GLASS OPTION 1: 1" LAMINATED I.G. (3/16" HT.ST./0.06" DUPONT BUTACITE PVB/3/16" HT.ST. INTERIOR; 3/8" AIR SPACE; 3/16" TEMP. EXTERIOR)
GLASS OPTION 2: 1" LAMINATED I.G. (3/16" HT.ST./0.06" SOLUTIA SALFEX IIIIG PVB/3/16" HT.ST. INTERIOR; 3/8" AIR SPACE; 3/16" TEMP. EXTERIOR)

FRAME ANCHORS PER
ELEVATION ON SHEET 1



SECTION B1
SCALE: 1/2 FULL

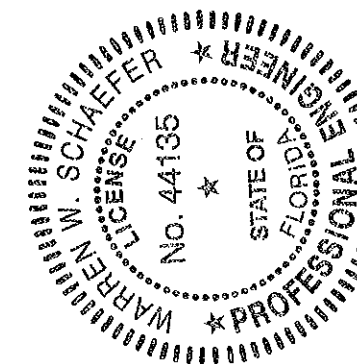


INACTIVE PANEL GLAZING DETAIL

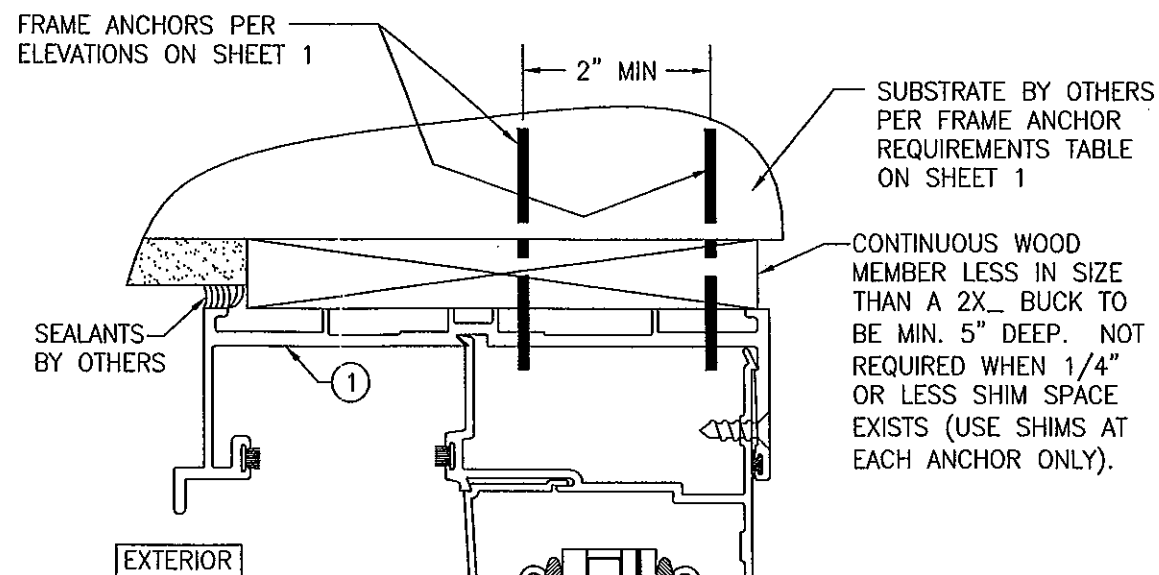
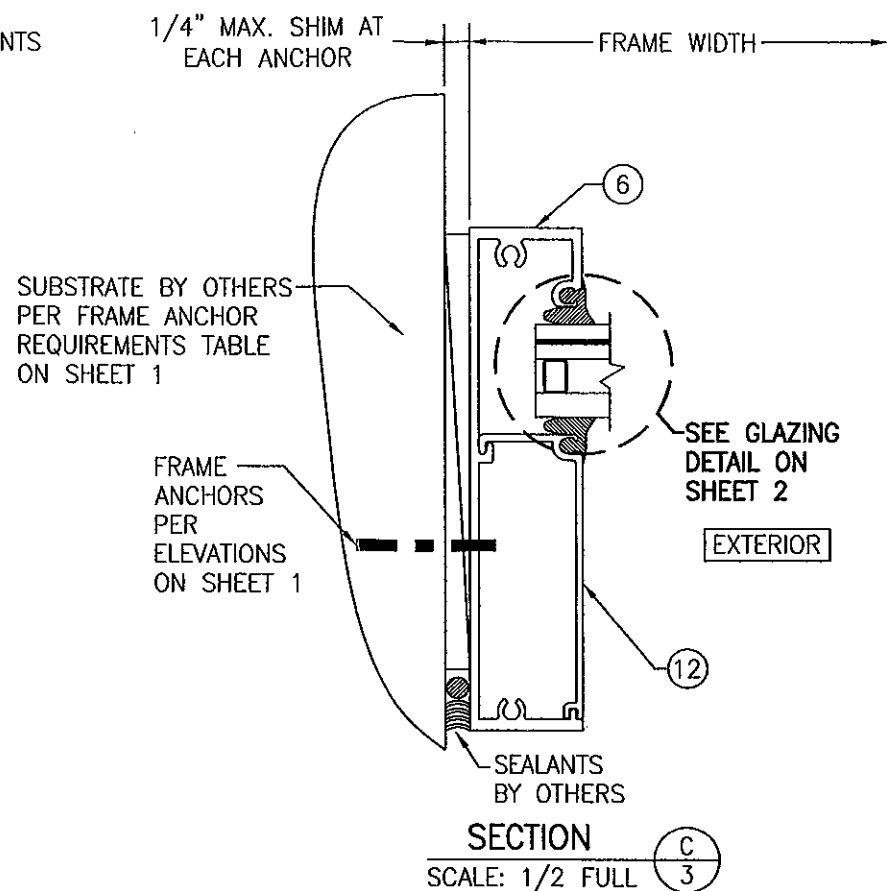
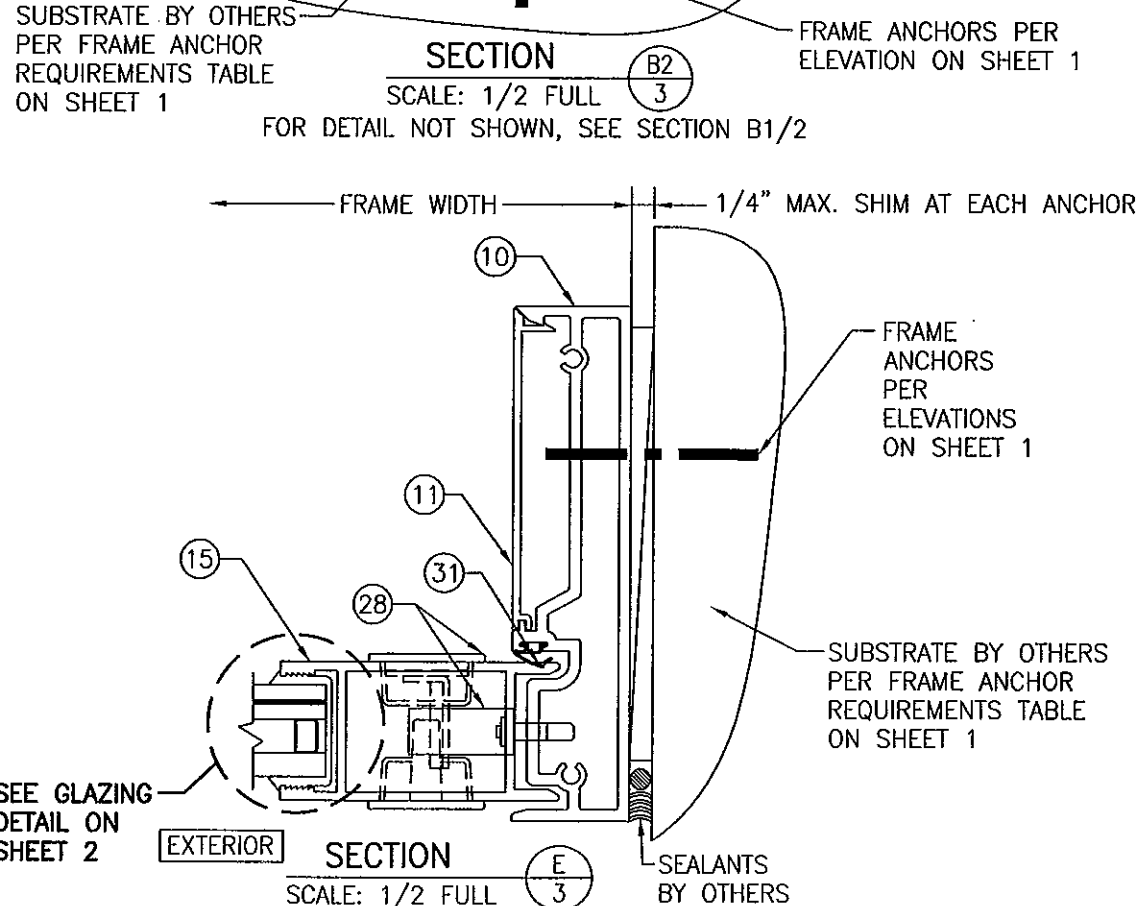
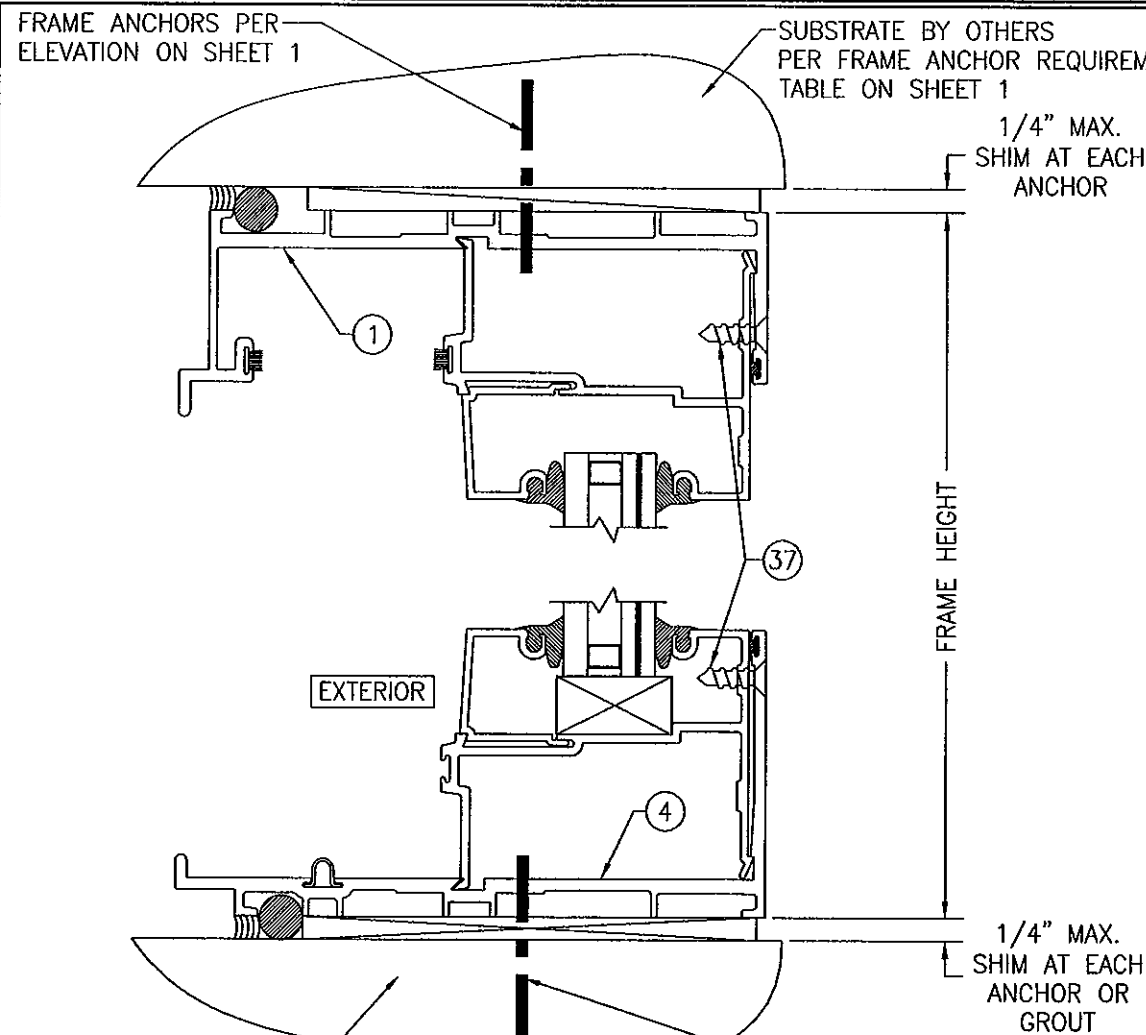
GLASS OPTION 1: 1" LAMINATED I.G. (3/16" HT.ST./0.06" DUPONT BUTACITE PVB/3/16" HT.ST. INTERIOR; 3/8" AIR SPACE; 3/16" TEMP. EXTERIOR)
GLASS OPTION 2: 1" LAMINATED I.G. (3/16" HT.ST./0.06" SOLUTIA SALFEX IIIIG PVB/3/16" HT.ST. INTERIOR; 3/8" AIR SPACE; 3/16" TEMP. EXTERIOR)

NOTE: RAIL CONDITION IS SHOWN. GLAZING TO STILES IS SIMILAR

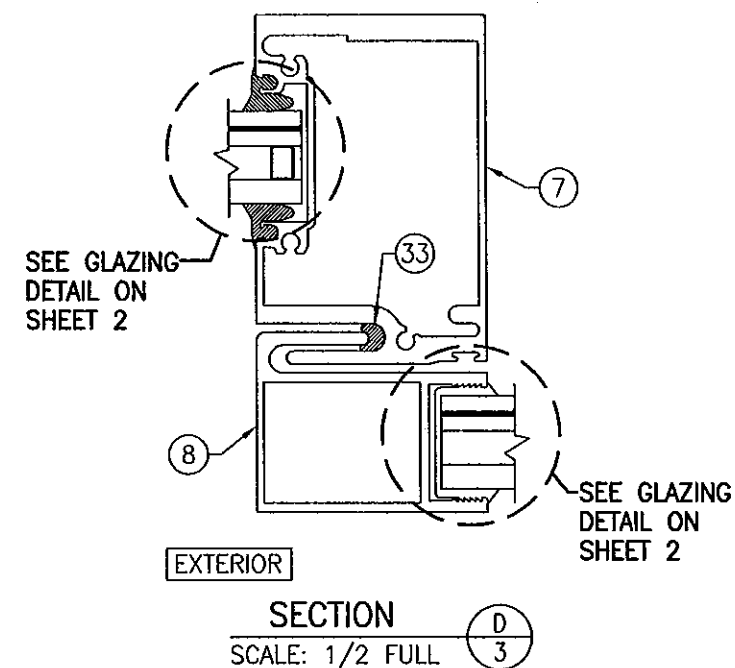
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-1027.14
Expiration Date AUG 23, 2017
By Ishag I. Chandra
Manual Made/Product Control



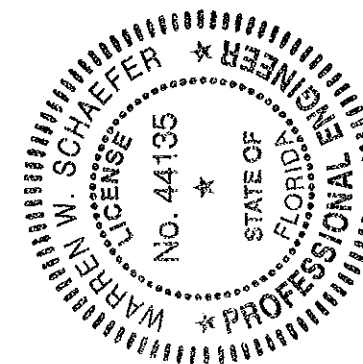
DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 04/10/07	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE: HPS HC-100 SMALL MISSILE IMPACT SLIDING GLASS DOOR			
CONSULTANTS: W. W. SCHAEFFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER: KAWNEER COMPANY, INC.	
7480 150TH COURT NORTH, PALM BEACH GARDENS, FL 33418		555 GUTHRIDGE COURT, NORCROSS, GA 30092	
PHONE: 561-744-3424		770-449-5555	
CERTIFICATION: DEC 15 2011		REV. A	
DRAWING NO. 1522		SHEET NO. 2 OF 4	



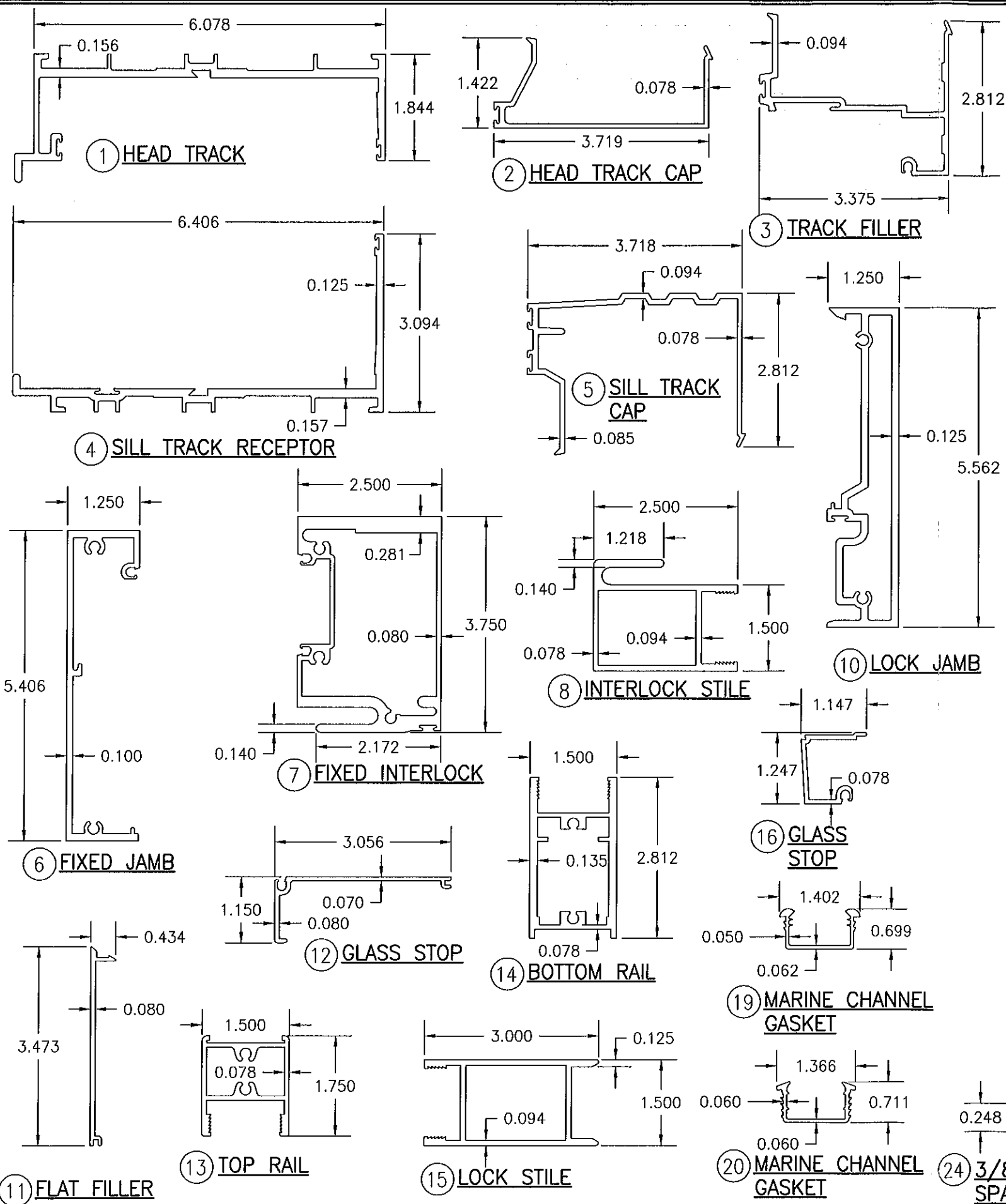
OPTIONAL DIRECT MOUNT DETAIL USING CONTINUOUS SPACER
(HEAD SECTION SHOWN; SILL & SIDES ARE SIMILAR)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-1027-14
Expiration Date: AUG 23, 2017
By: 16lag/Chande
Miami Dade Product Control

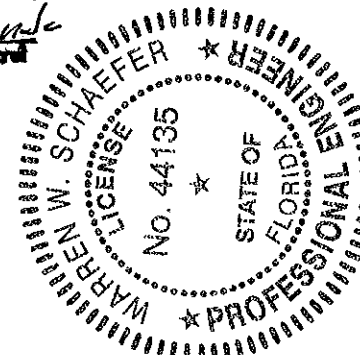


DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 04/10/07
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE HPS HC-100 SMALL MISSILE IMPACT SLIDING GLASS DOOR	MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	CERTIFICATION DEC 15 2011 WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1522	REV. A
SHEET NO. 3	OF 4



ITEM #	PART #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1	592-001	HEAD TRACK	6063-T6 ALUMINUM
2	592-005	HEAD TRACK CAP	6063-T6 ALUMINUM
3	591-068	FIXED LITE TRACK FILLER	6063-T6 ALUMINUM
4	591-023	SILL TRACK RECEPTOR	6063-T6 ALUMINUM
5	592-027	SILL TRACK CAP	6063-T6 ALUMINUM
6	591-071	FIXED JAMB	6063-T6 ALUMINUM
7	591-031	FIXED INTERLOCK	6063-T6 ALUMINUM
8	591-035	INTERLOCK STILE	6063-T6 ALUMINUM
10	591-070	LOCK JAMB	6063-T6 ALUMINUM
11	162-021	FLAT FILLER	6063-T6 ALUMINUM
12	591-074	GLASS STOP	6063-T6 ALUMINUM
13	591-033	TOP RAIL	6063-T6 ALUMINUM
14	591-034	BOTTOM RAIL	6063-T6 ALUMINUM
15	591-039	LOCK STILE	6063-T6 ALUMINUM
16	591-004	GLASS STOP	6063-T6 ALUMINUM
19	925-577	MARINE CHANNEL GASKET	TEKNORAPEX APEX 3169 PVC DUROMETER = 69; TENSILE STRENGTH = 1700 PSI; ELONGATION AT BREAK = 410%; SPECIFIC GRAVITY = 1.35
20	127-134	MARINE CHANNEL GASKET	TREMCO PART #TR-14015E EPDM 70 DUROMETER +/-5
21	925-393	ROLLER GUIDE INSERT	STAINLESS STEEL
22	027-073	1.25 X 0.625 SETTING BLOCK	EPDM
23	127-097	1.125 X 0.062 SETTING BLOCK	EPDM
24	-	3/8" I.G. GLASS SPACER	3005 OR 3105 ALUMINUM
HARDWARE			
26	594-451	TANDEM CASTER ASSEMBLY	VPL ENTERPRISES 8900 SERIES S.S.
28	911-581	LATCH LOCK	ADAMS RITE 1847 (STAINLESS STEEL)
29	089-411	LOCK STRIKE & BACKER PLATE	STAINLESS STEEL
SEALS AND SEALANTS			
30	027-088	PILE WEATHER STIPPING	PB 9322 POLY BOND
31	027-110	40 DUROMETER WEATHERING GASKET	G.E. GELOY/DUPONT HYTREL
32	027-579	BULB WEATHER STRIP	INTEK #50230A
33	590-412	INTERLOCK BUMPER	EPDM BY KRP
34	027-077	GLAZING WEDGE GASKET	TRELLEBORG BRM-270400 EPDM 70 DUROMETER
MISC. FASTENERS			
37	128-107	NO. 12-24 X 3/4" PFHTFS	4 AT EACH TOP & BOTTOM RAIL OF FIXED PANEL

PRODUCT REVISED
to comply with the Florida
Building Code
Acceptance No. 11-1027-14
Expiration Date AUG 23, 2017
By [Signature]
When Date Product Control



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-2		DATE: 04/10/07	
DATE	BY	REVISION DESCRIPTION	NO.
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CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER: KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION: [Signature] DEC 15 2011 WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. 1522 SHEET NO. 4 OF 4 REV. A	